

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 683.80

Revision Date: October 8, 2002

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### Section 1 — Chemical Product and Company Identification

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#### Selenium

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Selenium

CAS#: 7704-34-9

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### Section 3 — Hazards Identification

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Reddish black powder. Faint odor of rotten eggs.

Slightly toxic by ingestion, inhalation or absorbed through the skin. Body tissue irritant. Avoid all body tissue contact.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-1  
Reactivity-0  
Exposure-1  
Storage-0

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Do not induce vomiting; give 2-4 cups of milk or water. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Combustible powder.

Fire and explosion risk in finely divided form. When heated, it will burn and emit highly toxic SeOx fumes.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Inorganic #10. Store with sulfur and phosphorus.

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### Section 8 — Exposure Controls, Personal Protection

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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### Section 9 — Physical and Chemical Properties

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Reddish black powder.  
Solubility: Insoluble in water.  
Formula: Se  
Formula Weight: 78.96

Specific Gravity: 4.81  
Melting Point: 217 C

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### Section 10 — Stability and Reactivity

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Avoid contact with oxidizers and contact with acids.  
Shelf Life: Indefinite.

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### Section 11 — Toxicological Information

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Acute effects: Slightly toxic  
Chronic effects: Dermatitis, loss of hair  
Target organs: Spleen, lungs, skin, liver

ORL-RAT LD50: 6700 mg/kg  
IHL-RAT LC50: N.A.  
EYE-HUM:

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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### Section 12 — Ecological Information

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### Section 13 — Disposal Considerations

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Please consult with state and local regulations.  
Flinn Suggested Disposal Method #26a is one option.

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### Section 14 — Transport Information

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Shipping Name: Selenium  
Hazard Class: 9  
UN Number:

N/A = Not applicable

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### Section 15 — Regulatory Information

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TSCA-listed, EINECS-listed (231-957-4).

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### Section 16 — Other Information

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Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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*Flinn MSDS Prevent Chemical Accidents*

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